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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER TECHNICAL REVIEW FORM

DISTRIBUTION SYSTEMS (N.J.A.C. 7:10-11.10)

Water Purveyor	PWSID#	Municipality
New Demands of this Project		
Estimated additional residential peak demand:		Using: ☐ DEP standards (N.J.A.C. 7:10-12.6) or ☐ Department of Community Affairs standards x 3 = peak (N.J.A.C. 5:21-5.1)
Estimated of new non-residential average dema Peak demand = 3 x average daily demand: Total estimated additional demand:	nd:	Using N.J.A.C. 7:10-12.6 – Table 1 As per N.J.A.C. 7:10-12.6(b)2. Estimated additional residential demand + estimated additional non-residential demand.
➤ Note: Supporting data & calculations m Existing Demands	ust be included in	the Engineers Report and on the Plans
Current system peak daily demand: (Avg day demand of the peak month in past 5 y		Month/Year:
Previously allocated water:		Projects approved by the Bureau of Safe Drinking Water, but not yet constructed; attach additional sheets listing Permit Numbers and estimated demands
Total current peak daily demand:		Current system peak daily demand + previously allocated water
Estimated New Peak Daily Demand:		Total estimated additional demand from this project + total current peak daily demand
System Source Capacity		
Total source capacity:		Attach list of all sources with capacities
Firm source capacity:		Total source capacity - largest source / treatment unit

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Pip	pe information:	Diameter (in)	Length (LF)	Material			
		Total Length (LF			YES	NO	N/A
1.	Does the system have adequate firm source capacity to meet the estimated new peak daily demand?						
2.	2. Are the water mains designed to maintain a minimum pressure of 20 pounds per square inch (psi) at street level under all flow conditions?						
3.	3. Is the minimum diameter of all distribution mains six inches for systems with an average daily demand less than one MGD and eight inches for larger systems? If not, is justification provided by hydraulic analysis, taking into consideration future water usage?						
4.	Are distribution mains des fire flow) of five feet per second for mains	second for mains up	to 16 inches in diam				
5.	Are the distribution mains	s laid in a loop syste	m to eliminate dead	ends?			
6.	6. Is each dead end provided with a fire hydrant, flushing hydrant, or a valved outlet to which a temporary pipe may be affixed, to discharge flushed water above ground at a minimum pipe flushing velocity of 2.5 feet per second?						
7.	7. Are all distribution mains covered with a minimum of 3.5 feet or earth or other suitable cover to prevent freezing? (Minimum depth of cover:)						
8.	Will the water mains be d with N.J.A.C. 7:10-11.6(d		eing placed in servic	e in accordance			
9.	Are all water mains and sanitary or industrial sewer lines separated by a horizontal distance of 10 feet, or if such lateral separation is not possible, are the distribution and sewer lines in separate trenches with the top of the sewer line at least 18 inches below the bottom of the water main?						
10	At crossings of sewer line at least 18 inches below the separation is not possible, (i.e. ductile iron, reinforce that are a minimum of 10	ne bottom of the wat is the sewer line of ed concrete pipe, etc	er main, or if such verwatertight construct.) with watertight join	ertical ion			

Type or Print Name of Engineering Firm

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